CLAIMS

We claim:

1.   A method of performing color correction on at least one image, said image comprised of a plurality of pixels, said method comprising:

    accepting a first vector input from a first color adjustment pad, said first vector input proportionally adjusting a color of pixels of a selected luminance value in said image; and

    adjusting a color of pixels with other luminance values in a manner proportional to a difference between said selected luminance value and said other luminance value.

2.   The method of performing color correction on at least one image as claimed in claim 1 wherein said selected luminance value is a white luminance value.

3.   The method of performing color correction on at least one image as claimed in claim 1 wherein said selected luminance value is a black luminance value.

4.   The method of performing color correction on at least one image as claimed in claim 1 wherein said selected luminance value is a middle luminance value.

5.   The method of performing color correction on at least one image as
claimed in claim 1 wherein said manner proportional is constructed using a Bezier curve.

6.   A method of performing color correction by adjusting luminance
values of a set of pixels based on a luminance mapping relationship, the method
comprising:
   a) receiving a user input for modifying luminance values of pixels;
   b) based on the user input, modifying the luminance mapping relationship for
      mapping luminance values; and
   c) using the modified luminance mapping relationship to map original luminance
      values of pixels to adjusted luminance values.

7.   The method of claim 6, wherein a look up table specifies the
luminance mapping relationship by identifying an output luminance value for each of a
set of input luminance values, wherein modifying the luminance mapping relationship
comprises modifying a set of output luminance values in the look up table based on the
user input.

8.   The method of claim 6, wherein an equation specifies the mapping
relationship, and wherein modifying the mapping relationship comprises modifying the
equation.

9.   A method of performing color correction by adjusting chrominance values of a set of pixels based on a set of chrominance mapping relationships, the method comprising:

   a) receiving a user input for modifying chrominance values of pixels;

   b) based on the user input, modifying the chrominance mapping relationship for mapping chrominance values; and

   c) using the modified chrominance mapping relationship to map original chrominance values of pixels to adjusted chrominance values.

10.   The method of claim 9, wherein a look up table specifies the chrominance mapping relationship by identifying an output chrominance value for each of a set of input chrominance values, wherein modifying the chrominance mapping relationship comprises modifying a set of output chrominance values in the look up table based on the user input.

11.   The method of claim 9, wherein an equation specifies the mapping relationship, and wherein modifying the mapping relationship comprises modifying the equation.

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